Demodulation Detection Parameters
Docket No.: PANA-01046USH Appl. No.: To be assigned

Confirm No.: To be assigned Filed: Herewith

Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800 Express Mail No: EV 326481736 US Sheet 1 of 12

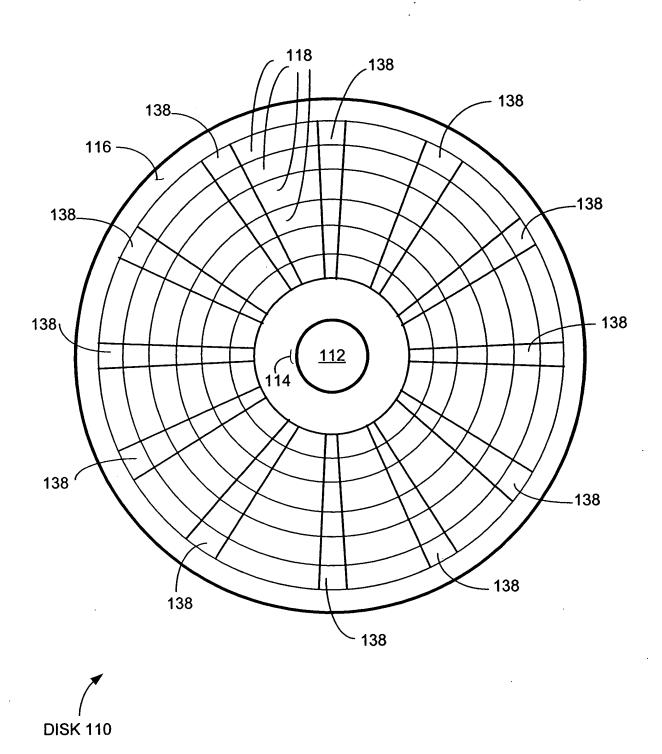


FIG. 1

Demodulation Detection Parameters
Docket No.: PANA-01046USH
Appl. No.: To be assigned Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800 Express Mail No: EV 326481736 US Sheet 2 of 12 Confirm No.: To be assigned Filed: Herewith SERVO FIELD O 310 DATA FIELDS ⋖ TRACK NUMBER SERVO FIELD FIG. 3 308~ WEDGE NUMBER 306-DATA FIELDS SERVO ADDRESS MARK 304-PRE-AMBLE SERVO FIELD 302-

Docket No.: PANA-01046USH Appl. No.: To be assigned Confirm No.: To be assigned Attorney: J. Kurin Phone: (415) 362-3800 Filed: Herewith Express Mail No: EV 326481736 US → HOST COMPUTER Sheet 3 of 12 TO/FROM 424 TO/FROM MEMORY BUFFER **PROCESSOR** 402 DISK DRIVE DEVICE MICRO-1 1 1 1 410 408 READ/WRITE CHANNEL 413 SERVO DEMOD 404 SERVO FIELD DETECTOR REGISTER SPACE 432 **READ/WRITE** 439 FIG. 4 PATH MOTOR DRIVER 412 SERVO PLL SERVO AGC 428 VCM V 420₁ 418 **HDA 406** SM Θ 110

Demodulation Detection Parameters

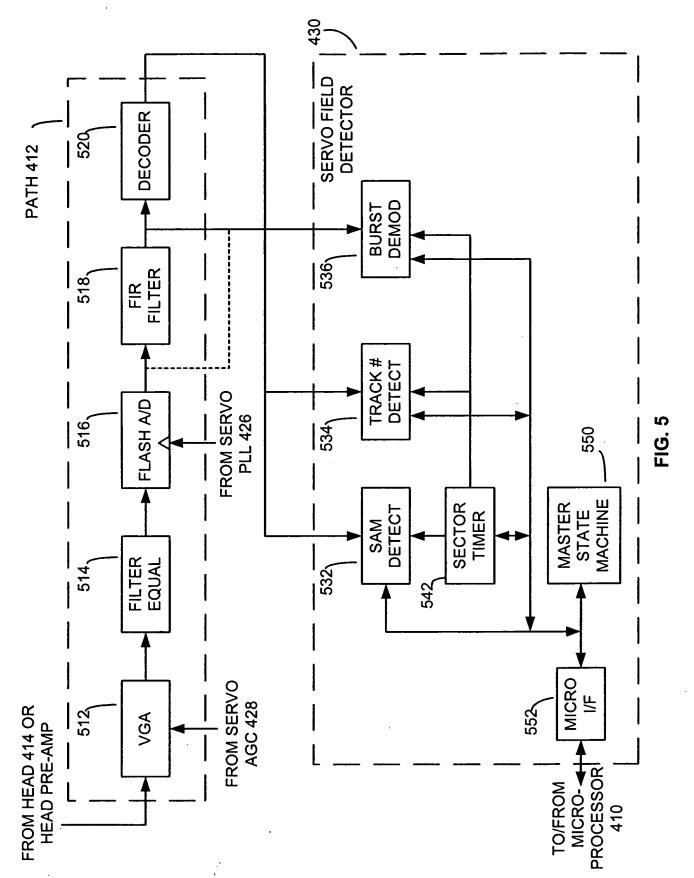
Inventor(s): Richard M. Ehrlich

Demodulation Detection Parameters
Docket No.: PANA-01046USH
Appl. No.: To be assigned

Confirm No.: To be assigned Filed: Herewith

Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800

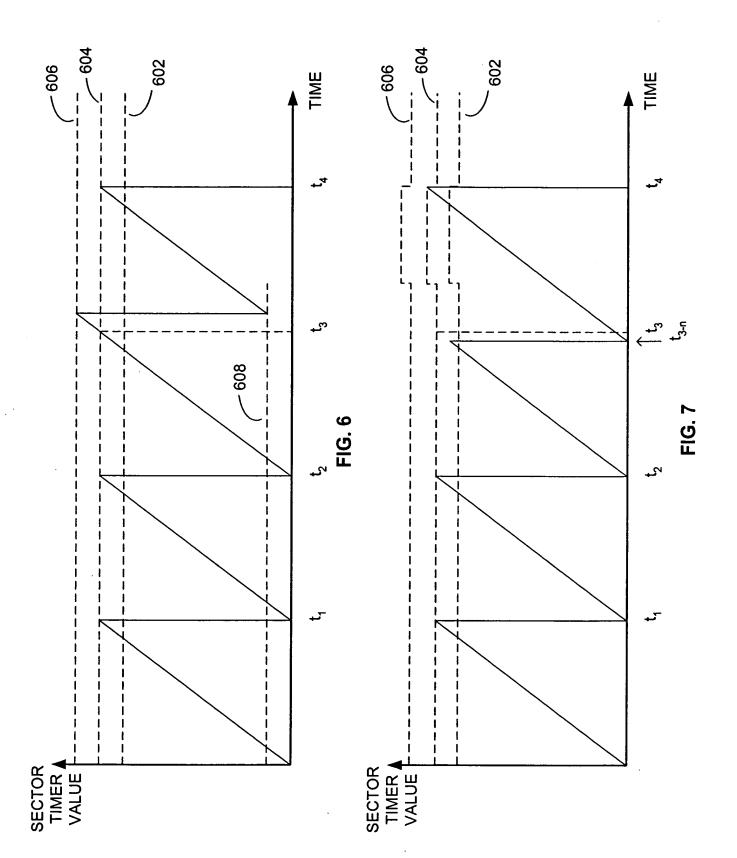
Express Mail No: EV 326481736 US Sheet 4 of 12



Demodulation Detection Parameters Docket No.: PANA-01046USH Appl. No.: To be assigned

Confirm No.: To be assigned Filed: Herewith

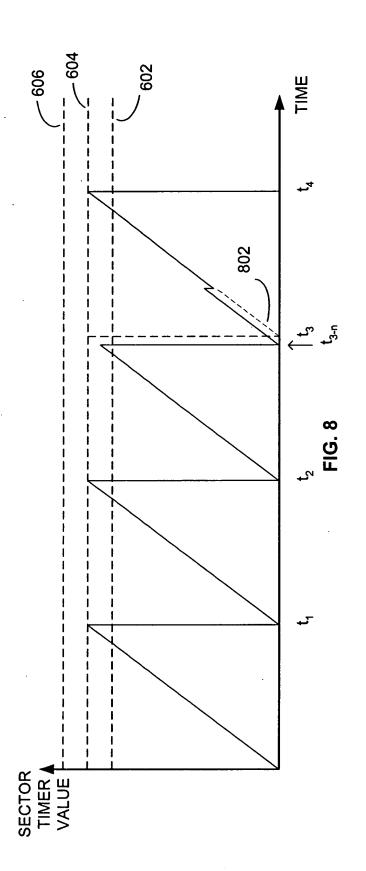
Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800 Express Mail No: EV 326481736 US Sheet 5 of 12



Demodulation Detection Parameters
Docket No.: PANA-01046USH
Appl. No.: To be assigned
Confirm No.: To be assigned

Filed: Herewith

Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800 Express Mail No: EV 326481736 US Sheet 6 of 12



Demodulation Detection Parameters Docket No.: PANA-01046USH Appl. No.: To be assigned Confirm No.: To be assigned

Filed: Herewith

Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800

Express Mail No: EV 326481736 US

Sheet 7 of 12

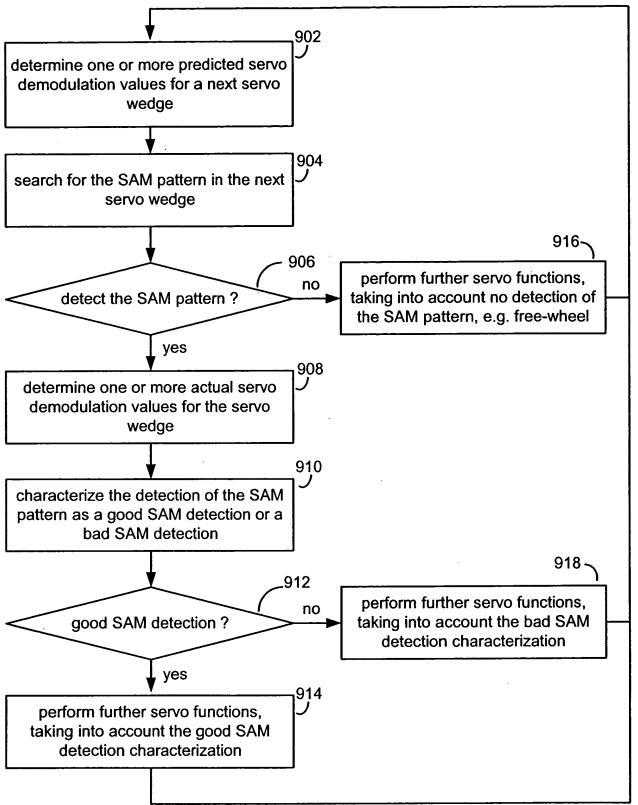


FIG. 9

Demodulation Detection Parameters
Docket No.: PANA-01046USH

Appl. No.: To be assigned Confirm No.: To be assigned Filed: Herewith Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800

Express Mail No: EV 326481736 US

Sheet 8 of 12

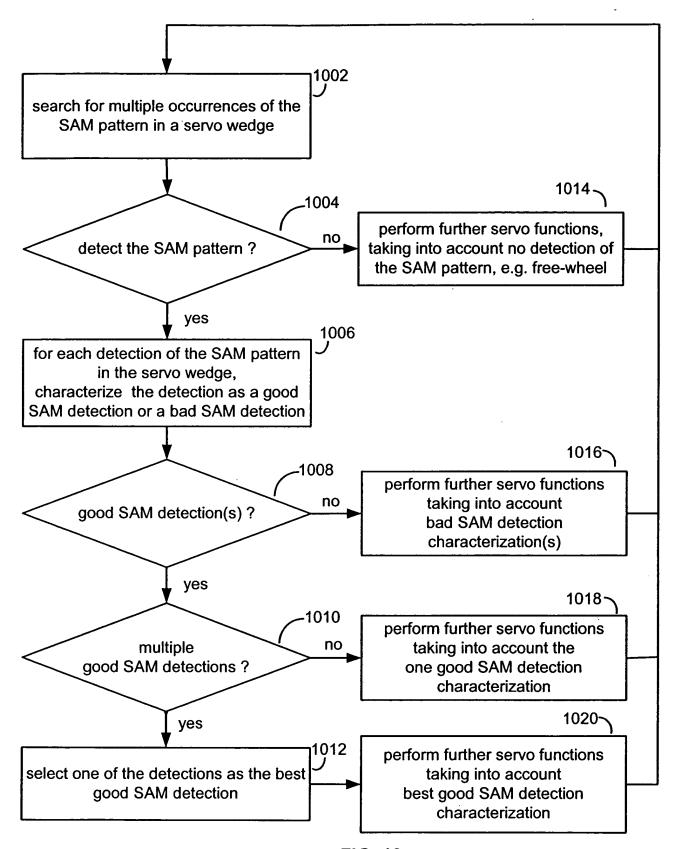


FIG. 10

Confirm No.: To be assigned Phone: (415) 362-3800 Filed: Herewith Express Mail No: EV 326481736 US Sheet 9 of 12 1102 search for the SAM pattern in a servo wedge 1112 1104 select at least one previously stored channel control value as, or to no detect the SAM pattern? predict, a starting channel control value for use when beginning to read a next servo wedge yes 1106 characterize the detection as a good SAM detection or a bad SAM detection 1108 no good SAM detection? 1110 1114 yes select at least one channel control store at least one channel control value value stored at step 1110 as, or to (e.g., servo AGC value and/or servo predict, a starting channel control PLL value) associated with the servo value for use when beginning to wedge read a next servo wedge

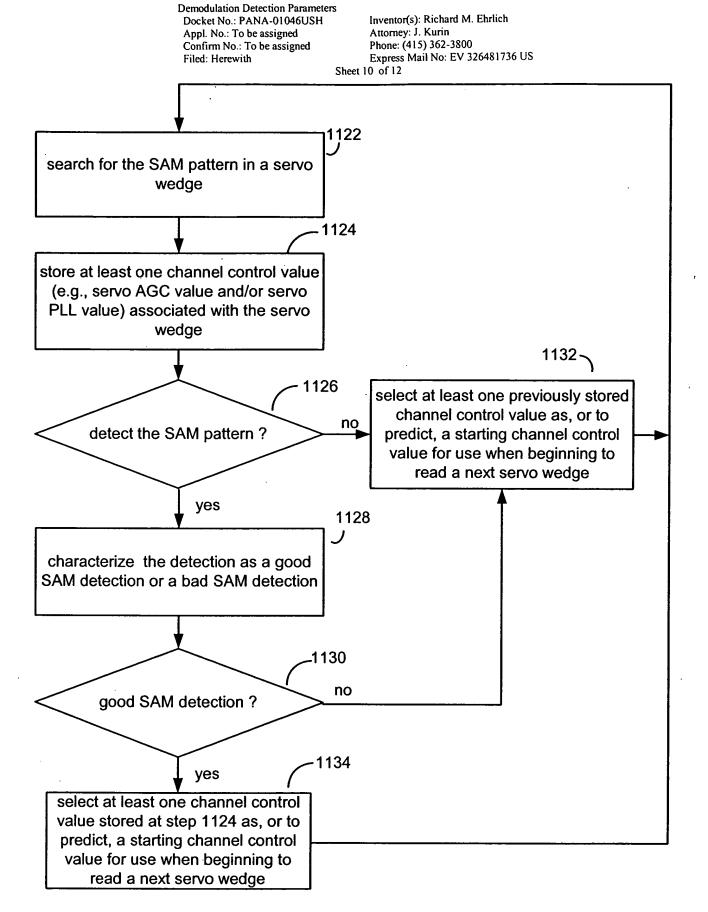
Demodulation Detection Parameters Docket No.: PANA-01046USH

Appl. No.: To be assigned

Inventor(s): Richard M. Ehrlich

Attorney: J. Kurin

FIG. 11A



Demodulation Detection Parameters Docket No.: PANA-01046USH Appl. No.: To be assigned Confirm No.: To be assigned Filed: Herewith

Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800 Express Mail No: EV 326481736 US Sheet 11 of 12

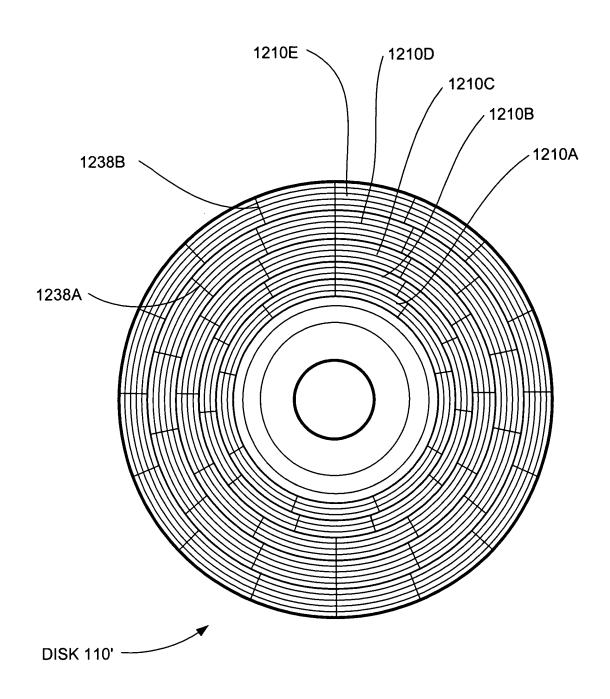


FIG. 12

Demodulation Detection Parameters Docket No.: PANA-01046USH Appl. No.: To be assigned Confirm No.: To be assigned Filed: Herewith

Inventor(s): Richard M. Ehrlich Attorney: J. Kurin Phone: (415) 362-3800

Express Mail No: EV 326481736 US

